

### **ABSTRACT OF THE DISCLOSURE**

The present invention facilitates serial communication by performing duty cycle correction. A duty cycle correction component 302 performs duty cycle corrections on a pair of differential sinusoidal signals according to a pair of  
5 adjustment signals and, as a result, generates a differential pair of square wave signals. A cross coupled buffer 306 buffers the differential pair of square wave signals and provides the buffered signals to a feedback circuit 304 that measures duty cycles of the signals and generates the pair of adjustment signals  
10 accordingly. The buffer 306 can also remove skew from the signals. In a transmitter 102, the buffered signals are also generally provided to a multiplexer 112 or encoder and in a receiver 106, the buffered signals are also generally provided to a sampling component 122.